

Species Tag:	64002	Species Name:	SO2
Version:	4		Sulfur dioxide
Date:	Nov. 1996		
Contributor:	H. S. P. Müller		
	E. A. Cohen		
Lines Listed:	13573	Q(300.0)=	5918.720
Freq. (GHz) <	7682	Q(225.0)=	3841.714
Max. J:	99	Q(150.0)=	2090.601
LOGSTR0=	-10.0	Q(75.00)=	739.016
LOGSTR1=	-10.0	Q(37.50)=	261.662
Isotope Corr.:	-0.022	Q(18.75)=	92.841
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	33.070
μ_a =		A=	60778.550
μ_b =	1.6331	B=	10318.074
μ_c =		C=	8799.703

These measurements are based on fits to the data of (1) P. A. Helminger and F. C. De Lucia, 1985, J. Mol. Spect. **111**, 66; (2) the compilation of F. J. Lovas, 1985, J. Phys. Chem. Ref. Data **14**, 395; (3) E. A. Alekseev, S. F. Dyubko, V. V. Ilyushin, and S. V. Podnos, 1996, J. Mol. Spect. **176**, 316; and from (4) E. Klisch, S. P. Belov, and G. Winnewisser, private communication (1996). In addition, unpublished far-infrared laser sideband measurements made at JPL have been included for transitions with $K_a \leq 28$. Most of these transitions have been measured relative to well predicted lines; these lines and lines with large uncertainties (5 MHz) have not been merged.

The dipole moment is from (5) D. Patel D. Margolese, and T. R. Dyke, 1979, J. Chem. Phys. **70**, 2740.